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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/649,972	08/28/2003	Kiyohisa Suzuki	040302-0344	7071	
22428	7590 08/04/2004		EXAM	EXAMINER	
FOLEY AND LARDNER			RACHUBA, N	RACHUBA, MAURINA T	
SUITE 500		•			
3000 K STREET NW			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20007			3723		
			DATE MAILED, 09/04/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/649,972	SUZUKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	M Rachuba	3723			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS free, cause the application to become ABANDO	e timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
·— · · · · · · · · · · · · · · · · · ·	action is non-final.				
3) Since this application is in condition for allowa					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-8 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdray</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1 and 4-8 is/are rejected.</li> <li>7)  Claim(s) 2 and 3 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>					
Application Papers					
9)☐ The specification is objected to by the Examine 10)☑ The drawing(s) filed on 28 August 2003 is/are:  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Example 11.	a) accepted or b) objected or b) objected drawing(s) be held in abeyance. Stion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applic rity documents have been rece u (PCT Rule 17.2(a)).	ation No ived in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	ary (PTO-413)			
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 8/28/03.</li> </ul>	Paper No(s)/Mail				

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### **DETAILED ACTION**

## Specification

1. The incorporation of essential material in the specification by reference to a foreign application or patent, or to a publication is improper. Applicant is required to amend the disclosure to include the material incorporated by reference. The amendment must be accompanied by an affidavit or declaration executed by the applicant, or a practitioner representing the applicant, stating that the amendatory material consists of the same material incorporated by reference in the referencing application. See *In re Hawkins*, 486 F.2d 569, 179 USPQ 157 (CCPA 1973); *In re Hawkins*, 486 F.2d 579, 179 USPQ 163 (CCPA 1973); and *In re Hawkins*, 486 F.2d 577, 179 USPQ 167 (CCPA 1973). Please refer to lines 25-26, which appears to be incorporating by reference the material shown in figure 8.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, and 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable 4. over Kline 2,323,780 in view of Greening et al, 3,087,281. '780 discloses the claimed invention, see figures 10 and 11, but does not disclose that the coarse honing head is rotated in a reverse direction to the finishing honing head, or the amount of time the workpiece is idled. '281, in a honing device, teaches reversing the rotation of the head from the coarse grind direction to the finish grind direction. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided '780 with the rotational reversal of direction as taught by '281, column 5, lines 48-54, to eliminate pockets and irregularities in the interior cylinder surface. Regarding the amount of time the workpiece is idled, '780 inherently provides an idling time, as the workpiece is moved between the rough and finish grinding tools. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have held the workpiece in idle for any amount of desired time, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). In this case, the amount of idle time would depend on how quickly the device sets up between the rough and finish grinding. The idle time would be measured between the time the stones of the rough grinding head retract until the time the stones of the finishing grinding head contact the interior of the workpiece.

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## Allowable Subject Matter

5. Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not disclose or fairly teach providing coolant to the workpiece during the idle stage, or the coolant at the temperature equal to coolants used on the other sections. While '780 provides coolant during the actual grinding processes, he does not disclose that coolant is used during the idle stage. Such coolant use would be considered wasteful, until applicant's teachings.

#### **Conclusion**

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Other similar honing, milling or drilling tools are cited of interest.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M Rachuba whose telephone number is 703-308-1361. The examiner can normally be reached on Monday-Thursday from 8:30 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail, can be reached on (703) 308-2687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Rachuba Primary Patent Examiner 2-Aug-04

